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### ABSTRACT OF THE DISCLOSURE

A tire pressure monitoring system and method for vehicles equipped with anti-lock braking systems (ABS), especially vehicles with more than two axles, is provided. Wheel sensors associated with the ABS are utilized to sense variables which depend on wheel rotation, such as speed of rotation of the wheels or travel distances covered by the wheels. An ABS control unit logically combines the determined variables with one another and performs an evaluation with respect to change of rolling radii of the wheels while allowing for changes of the variables caused by driving operation. The ABS control unit generates a warning signal when the change of variables caused by tire pressure decrease exceeds a preselected limit value. In addition to the wheel sensors, a tire pressure measuring system which measures the absolute tire inflation pressure of the wheels of at least one axle and generates a warning signal when the measured tire inflation pressure drops below a preselected setpoint pressure can be utilized.